



SPC: Products of the Future

as found at spc.noaa.gov

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David A Imy

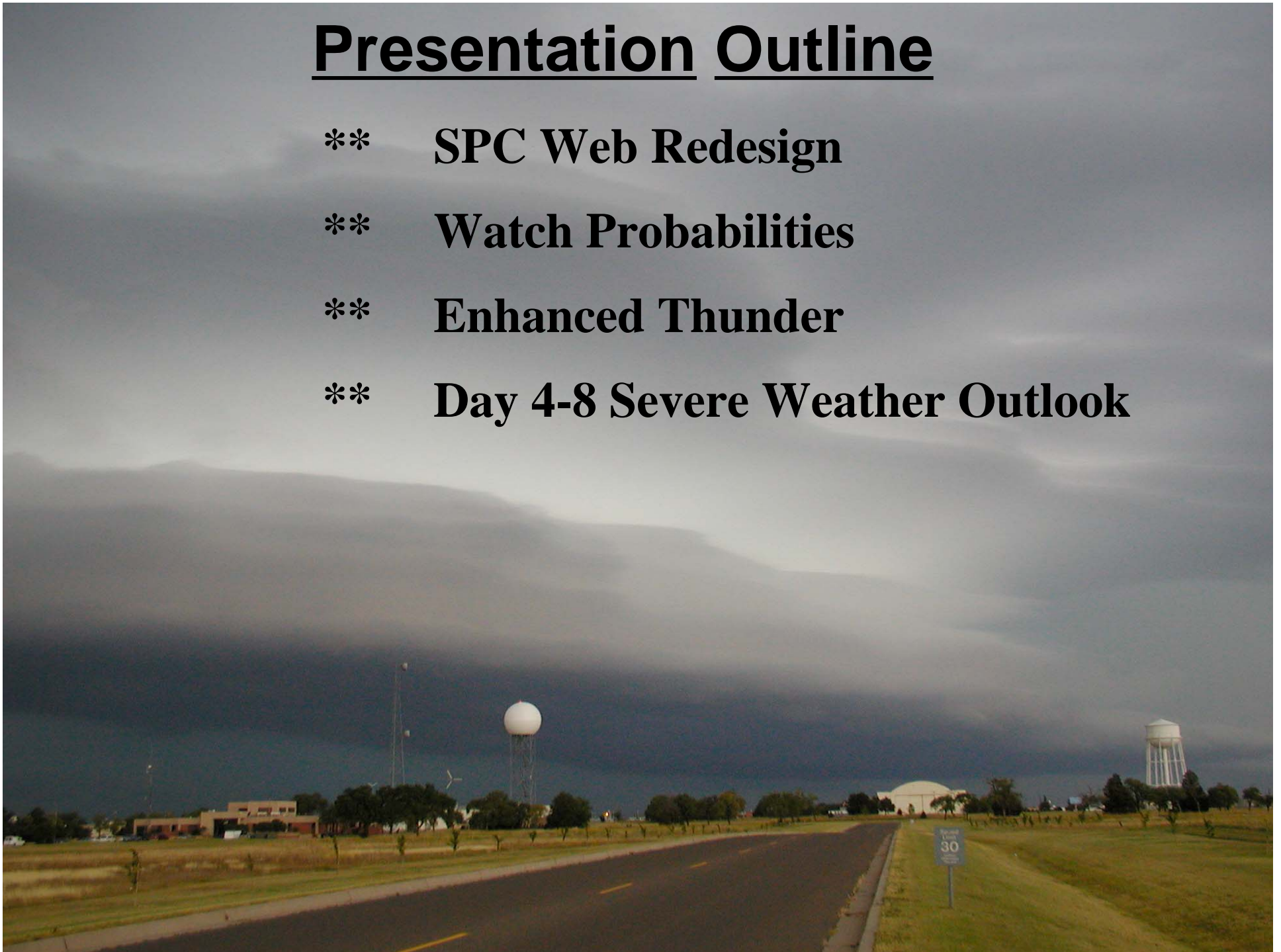
NOAA-NWS Storm Prediction Center

Norman, OK

WHERE AMERICA'S CLIMATE AND WEATHER SERVICES BEGIN

Presentation Outline

- ** SPC Web Redesign**
- ** Watch Probabilities**
- ** Enhanced Thunder**
- ** Day 4-8 Severe Weather Outlook**



SPC Web Redesign

Implemented on April 1st, 2005

Major changes include:

- Interactive front page with current Watches/MDs listed
- All white backgrounds
- Added capability to retrieve SPC archived products

Storm Prediction Center - Microsoft Internet Explorer

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Top News of the Day...

- The National Weather Service is undertaking research on how satisfied customers are with the weather products and services provided to the general public. We would appreciate your feedback by completing the survey. Click on <http://www.cfigroup.net/NOAANWS2005> to begin the survey.
- SPC is testing RSS feed for Watches, MDs, Day 1-3 Convective Outlooks, and FireWX forecast products. Click on <http://www.spc.noaa.gov/aboutrss.html> to get more details.
- Monitor the number of tornadoes during the year compare to normal and other years at www.spc.noaa.gov/climo/torn/monthlytornstats.html.
- The 2005 National Severe Weather Workshop will be held March 3-5, 2005 at the Reed Center in Midwest City, Oklahoma. More information can be found at www.norman.noaa.gov/nsww2005.
- The new SPC mesoscale summary redbook graphic depicting all active mesoscale discussion areas is now operational. The product has a WMO header of PGNA00 KWNS and is transmitted over NOAAPORT.
- [Short-Range Ensemble Forecast \(SREF\)](#) based on postprocessing the 15 member NCEP SREF plus the 3-hour time lagged, operational (12 km grid spacing) NCEP Eta for a total of 16 members, is now available.
- [About Derechos](#) is now available.
- Please use spc.feedback@noaa.gov to send us your feedbacks/questions.
- [May 4, 2003 tornado outbreak links](#).

Updated: February 16, 2005

Current Watches
No watches are currently in effect.
Current watches issued by the SPC

Day 1 Outlook
SPC Day 1 Outlook for 02/16/05
NO WATERSHEDS REDEFINED
NO WATERSHEDS REDEFINED
NO WATERSHEDS REDEFINED

Today's Reports
SPC Storm Reports for 02/16/05
NO WATERSHEDS REDEFINED
NO WATERSHEDS REDEFINED
NO WATERSHEDS REDEFINED

NSSL Photo

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Start Storm Prediction C... Storm Prediction Ce... nwsci updates - Inb... Adobe ImageReady ...

Internet 1:45 PM



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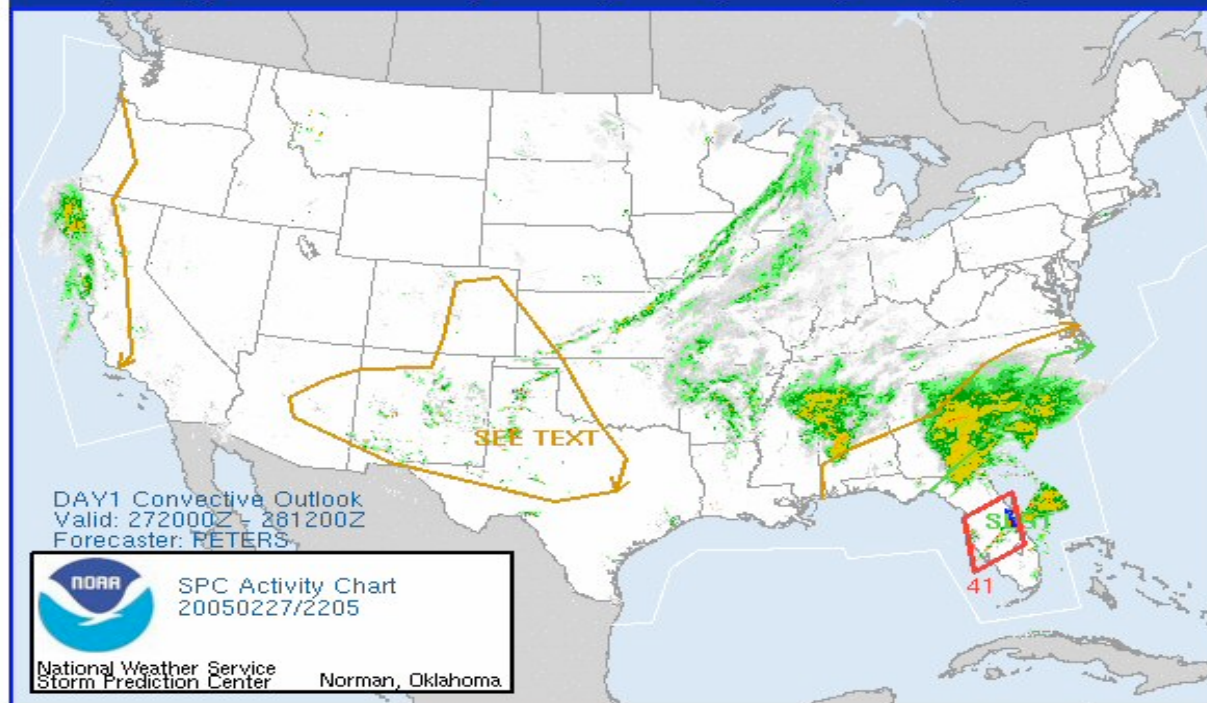
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0041...
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0240...
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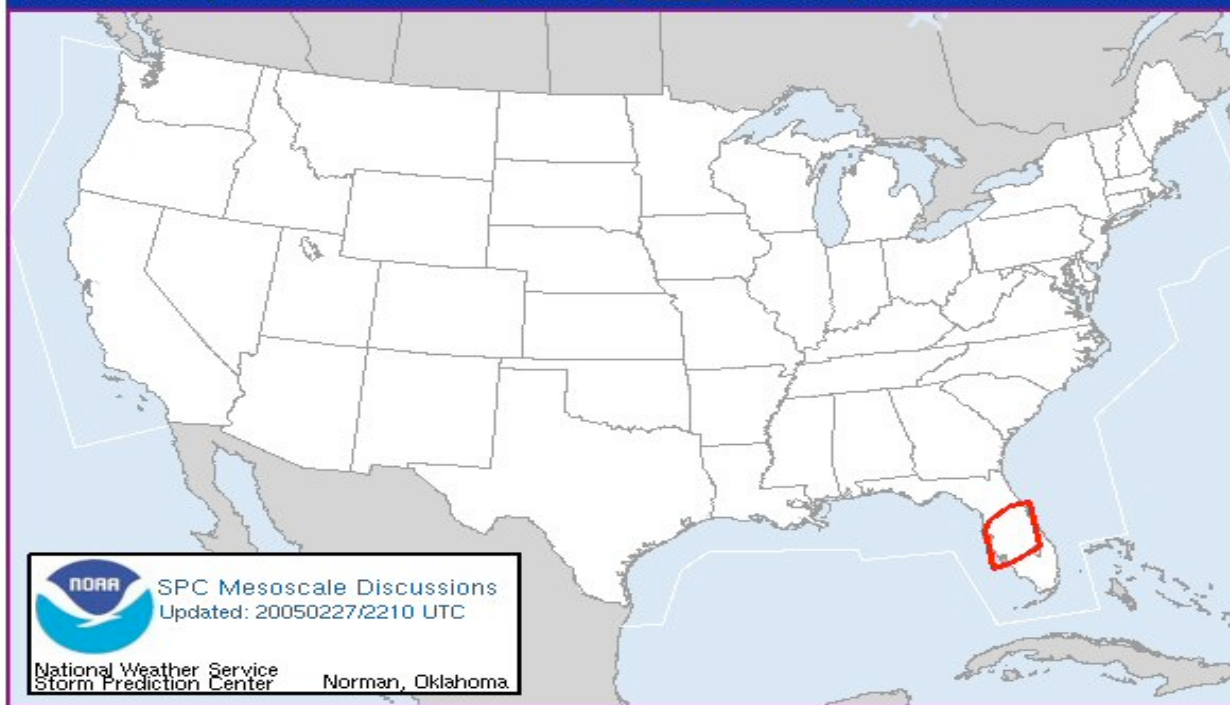
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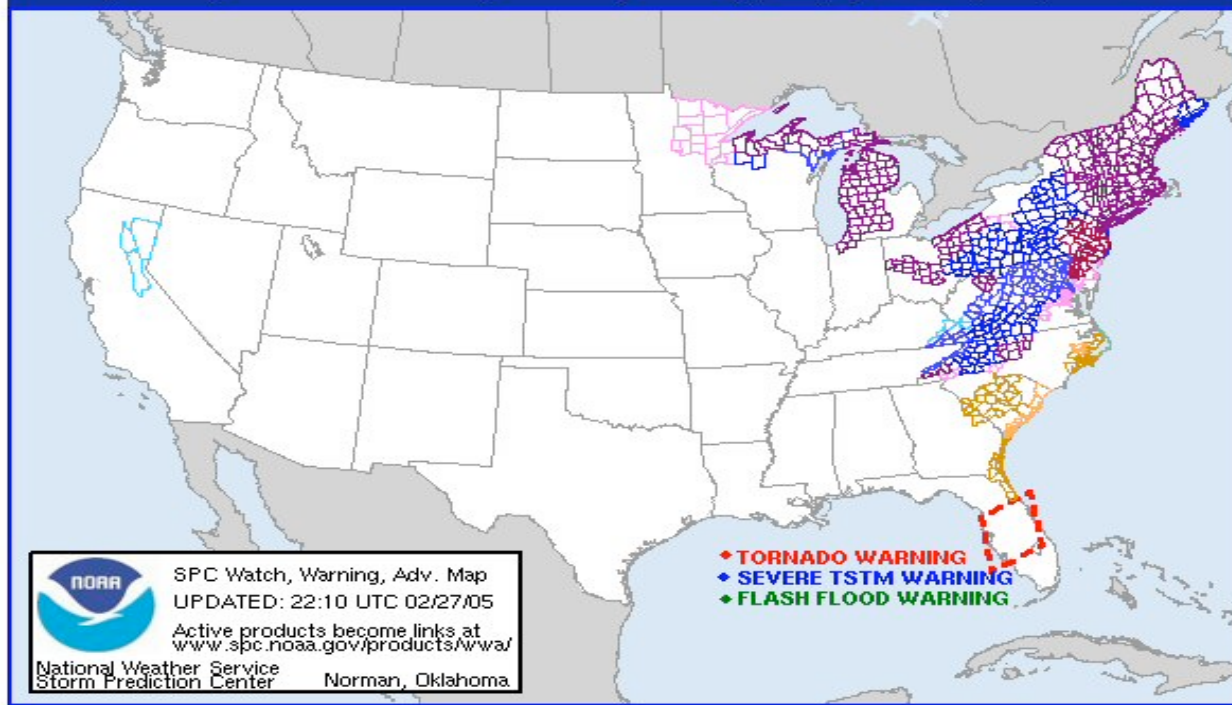
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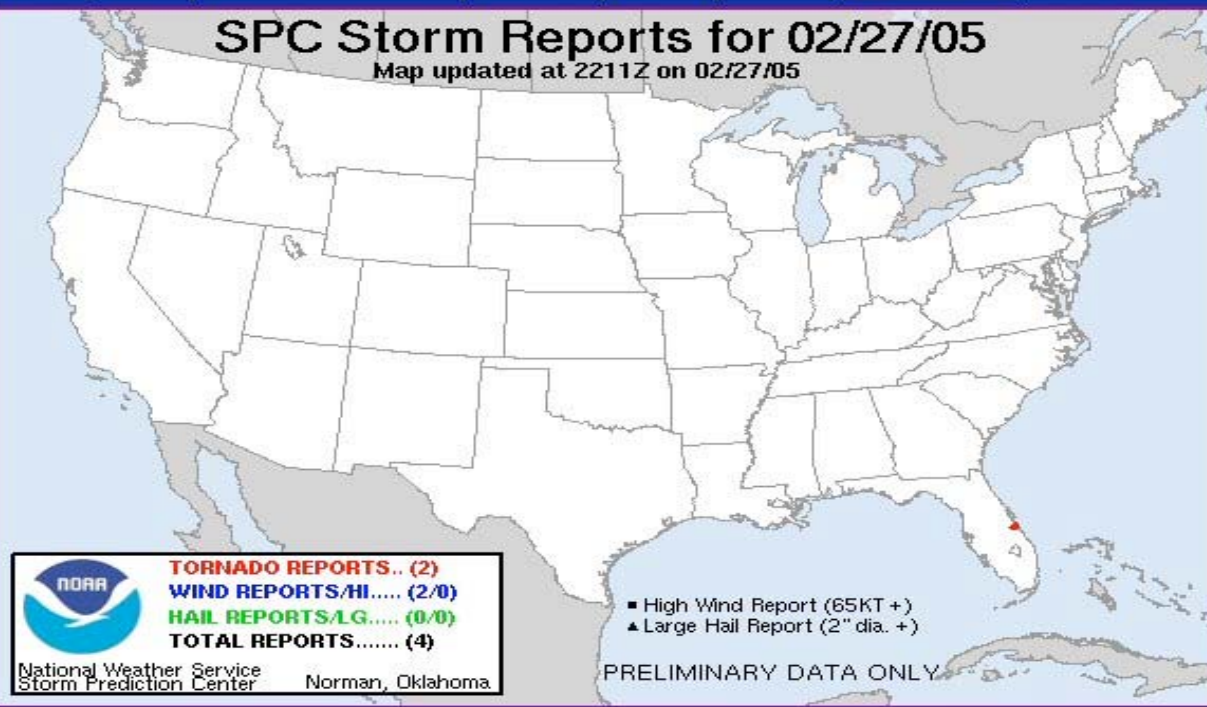
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SPC Storm Reports for 02/27/05

Map updated at 2211Z on 02/27/05



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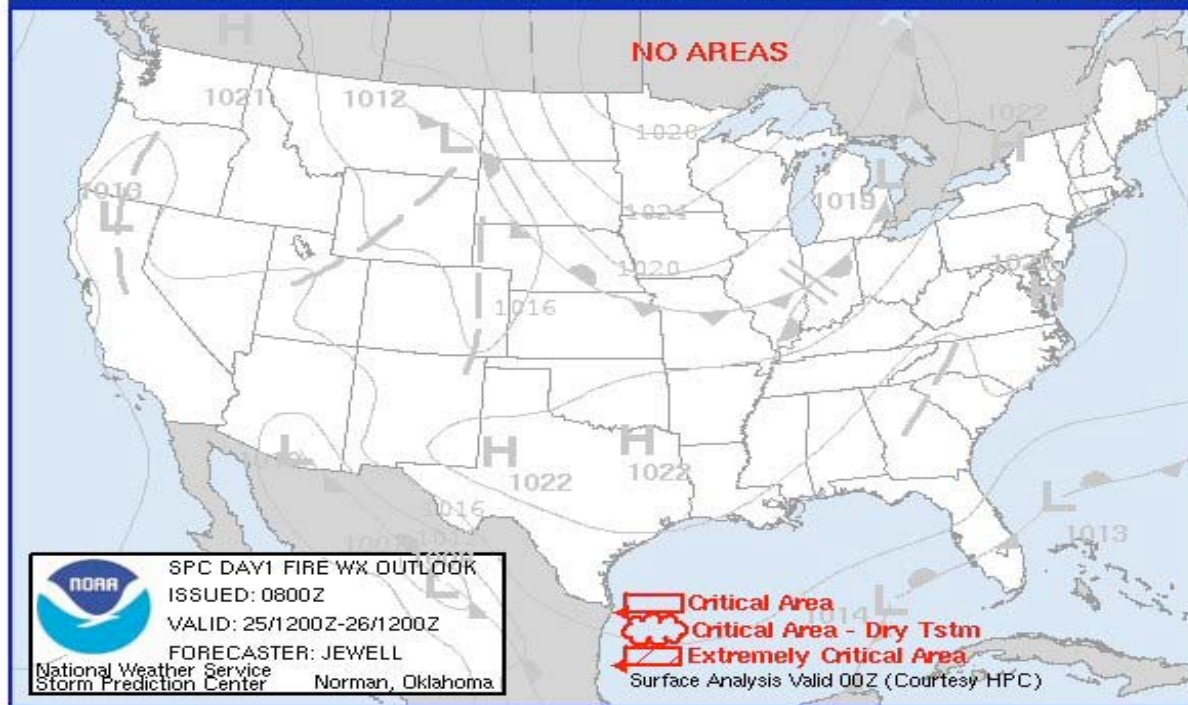
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Storm Prediction Center Product and Report Archives

***Important Notes:**

- All product issuance dates are in (UTC) Universal Coordinated Time.
- These data are provided for informational purposes only and may be incomplete. Official records of NOAA climate and product data should be obtained from the [National Climatic Data Center](#).

Archived Outlooks

To view convective outlooks for a previous day, type in the date you wish to retrieve (e.g. 20040529 for May 29, 2004). Data available since **January 23, 2003**.

Archived Weather Watches

To view convective weather watches for a previous day, type in the date you wish to retrieve (e.g. 20040529 for May 29, 2004). Data available since **January 1, 2004**.

Archived Mesoscale Discussions

To view mesoscale discussions for a previous day, type in the date you wish to retrieve (e.g. 20040529 for May 29, 2004). Data available since **January 1, 2004**.

Archived Storm Reports

To view an image of storm reports for a previous day, type in the date you wish to retrieve (e.g. 040529 for May 29, 2004). Data available since **April 22, 2003**.

If your browser does not support Javascript the images are still available to you through the URL http://www.spc.noaa.gov/climo/reports/YYMMDD_rpts.gif (e.g., 040529)

Beginning March 25, 2002, a printer friendly version of the storm report has been added. You may access them through the URL http://www.spc.noaa.gov/climo/reports/YYMMDD_prt_rpts.html (e.g., 020325) There is no plan to convert the older reports to the printer friendly version.

Data available back to 6/1/99.

Historical Severe Weather Data

The SPC database for severe weather reports (since 1950) now has ASCII text, comma-separated value (CSV) files that can be imported into database programs and spreadsheets for analysis. These extend up through the latest year for which final storm report data has been finished. The tornado data is unsegmented (whole-tornado, not by



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Severe Thunderstorm Watch 21

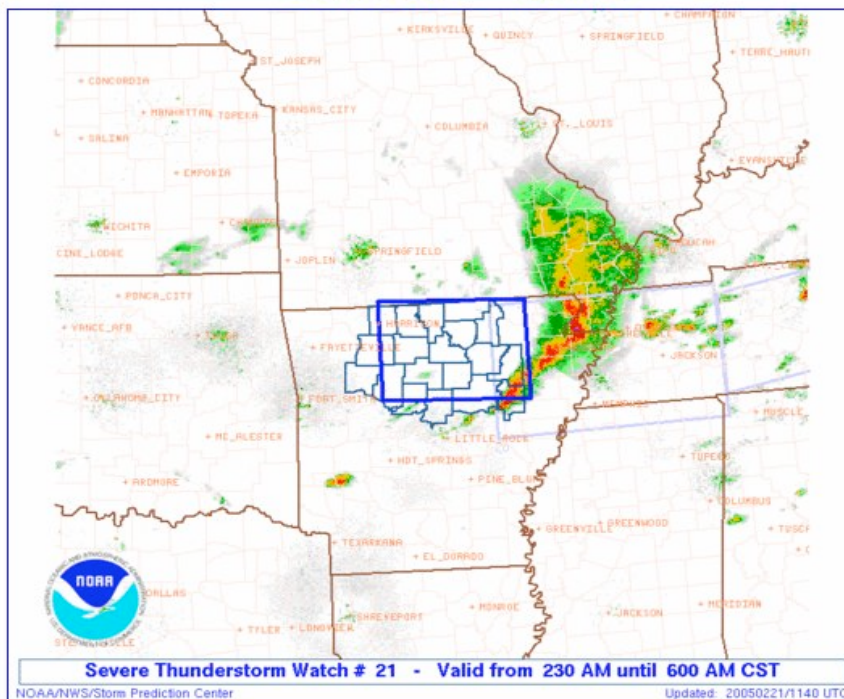
Initial RADAR image for Watch 21

Watch Outline Update (WOU) for Watch 21

Note: The WATCH PROBABILITY TABLES are non-operational and can only be viewed within [noaa.gov](#).

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SEL1

URGENT - IMMEDIATE BROADCAST REQUESTED
SEVERE THUNDERSTORM WATCH NUMBER 21
NWS STORM PREDICTION CENTER NORMAN OK

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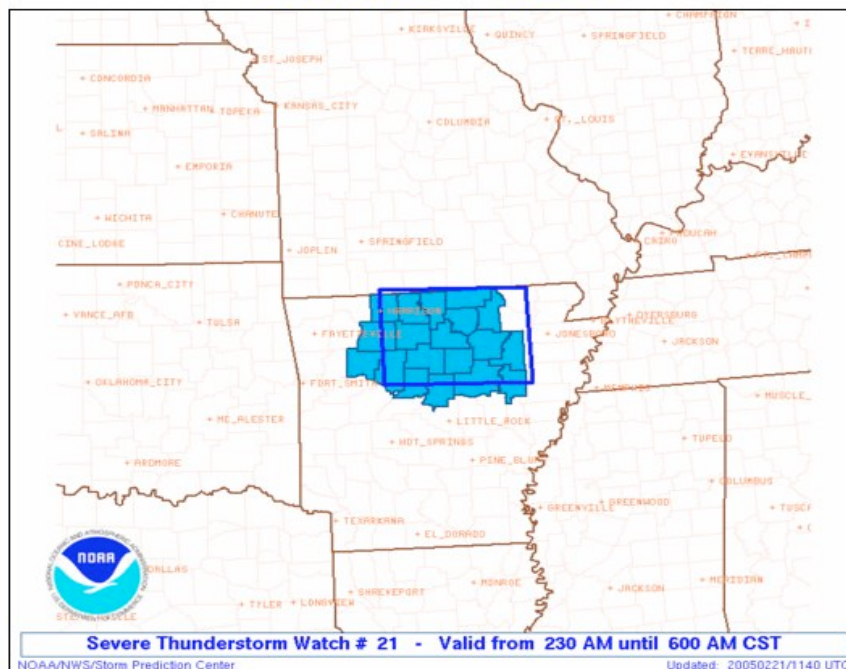
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Severe Thunderstorm Watch 21 Watch Outline Update (WOU)

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WOUS64 KWNS 210826

WOU1

BULLETIN - IMMEDIATE BROADCAST REQUESTED
SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 21
NWS STORM PREDICTION CENTER NORMAN OK
230 AM CST MON FEB 21 2005

SEVERE THUNDERSTORM WATCH 21 IS IN EFFECT UNTIL 600 AM CST
FOR THE FOLLOWING LOCATIONS

ARC005-009-023-029-045-049-063-065-067-071-089-101-115-129-135-
137-141-145-147-211200-
/O.NEW.KWNS.SV.A.0021.050221T0830Z-050221T1200Z/

AR

ARKANSAS COUNTIES INCLUDED ARE

BAXTER	BOONE	CLEBURNE
CONWAY	FAULKNER	FULTON
INDEPENDENCE	IZARD	JACKSON
JOHNSON	MARION	NEWTON
POPE	SEARCY	SHARP
STONE	VAN BUREN	WHITE
WOODRUFF		

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Watch Probabilities

Forecast 7 individual severe weather parameters.

They are (in 10% increments from 0-100%) the probabilities of:

2 or more tornadoes

1 or more strong (F2-F5) tornadoes

10 or more severe wind events

1 or more wind events > 65 knots

10 or more severe hail events

1 or more hailstones > 2 inches

6 or more severe hail/wind events



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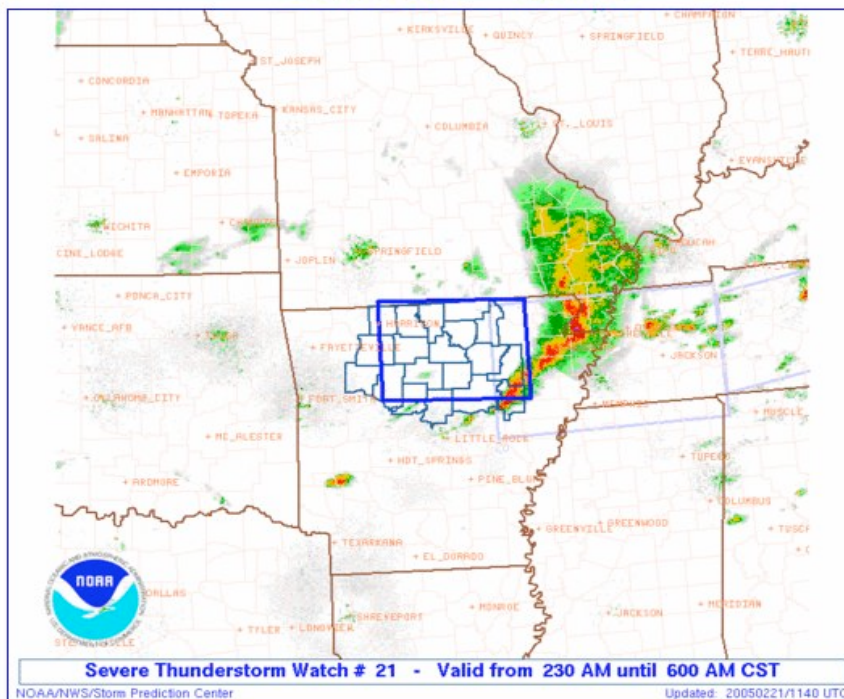
Initial RADAR image for Watch 21

Watch Outline Update (WOU) for Watch 21

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Severe TSTM Watch #21

Probabilities

The weather watch probability tables are a non-operational product currently under evaluation at the Storm Prediction Center. For each watch, probabilities for particular events inside the watch (listed below in each table) are determined by the issuing forecaster. The "Low" category contains probability values ranging from 0-20%, "Moderate" from 30-60%, and "High" from 70-100%. High values are bolded and lighter in color to provide awareness of an increased threat for a particular event. You may provide feedback on this non-operational product by writing an e-mail to spc.feedback@noaa.gov.

Tornadoes

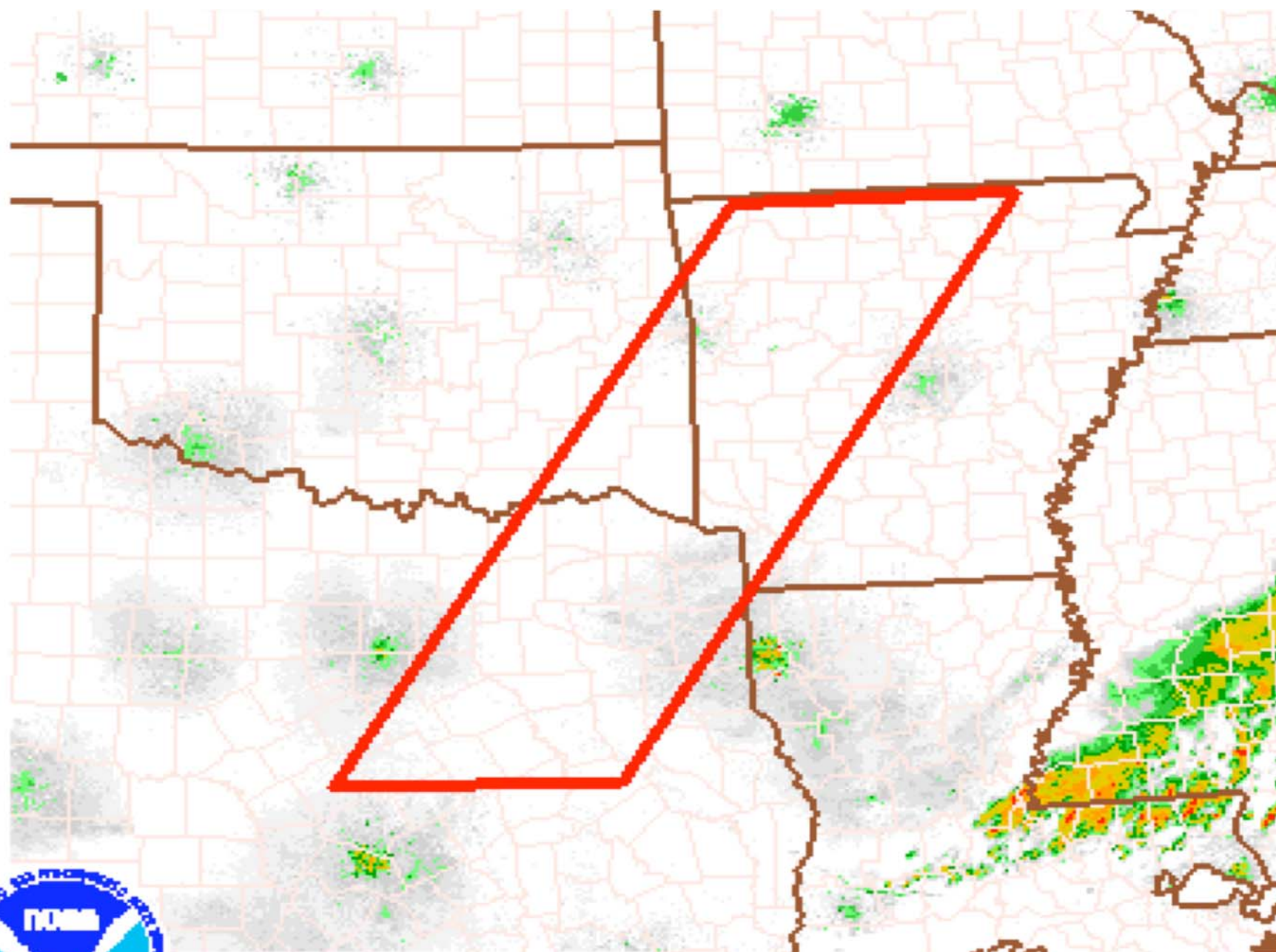
Probability of 2 or more tornadoes	Low (0%)
Probability of 1 or more strong (F2-F5) tornadoes	Low (0%)

Wind

Probability of 10 or more severe wind events	Mod (50%)
Probability of 1 or more wind events > 65 knots	Low (20%)

Hail

Probability of 10 or more severe hail events	Low (20%)
Probability of 1 or more hailstones > 2 inches	Low (10%)



20040531/1705

TORNADO WATCH # 341

VALID FROM 610 PM UNTIL 1100 PM CDT

Tornado Watch #341 Probabilities

The weather watch probability tables are a non-operational product currently under evaluation at the Storm Prediction Center. For each watch, probabilities for particular events inside the watch (listed below in each table) are determined by the issuing forecaster. The "Low" category contains probability values ranging from 0-20%, "Moderate" from 30-60%, and "High" from 70-100%. High values are bolded and lighter in color to provide awareness of an increased threat for a particular event. You may provide feedback on this non-operational product by writing an e-mail to spc.feedback@noaa.gov.

Tornadoes

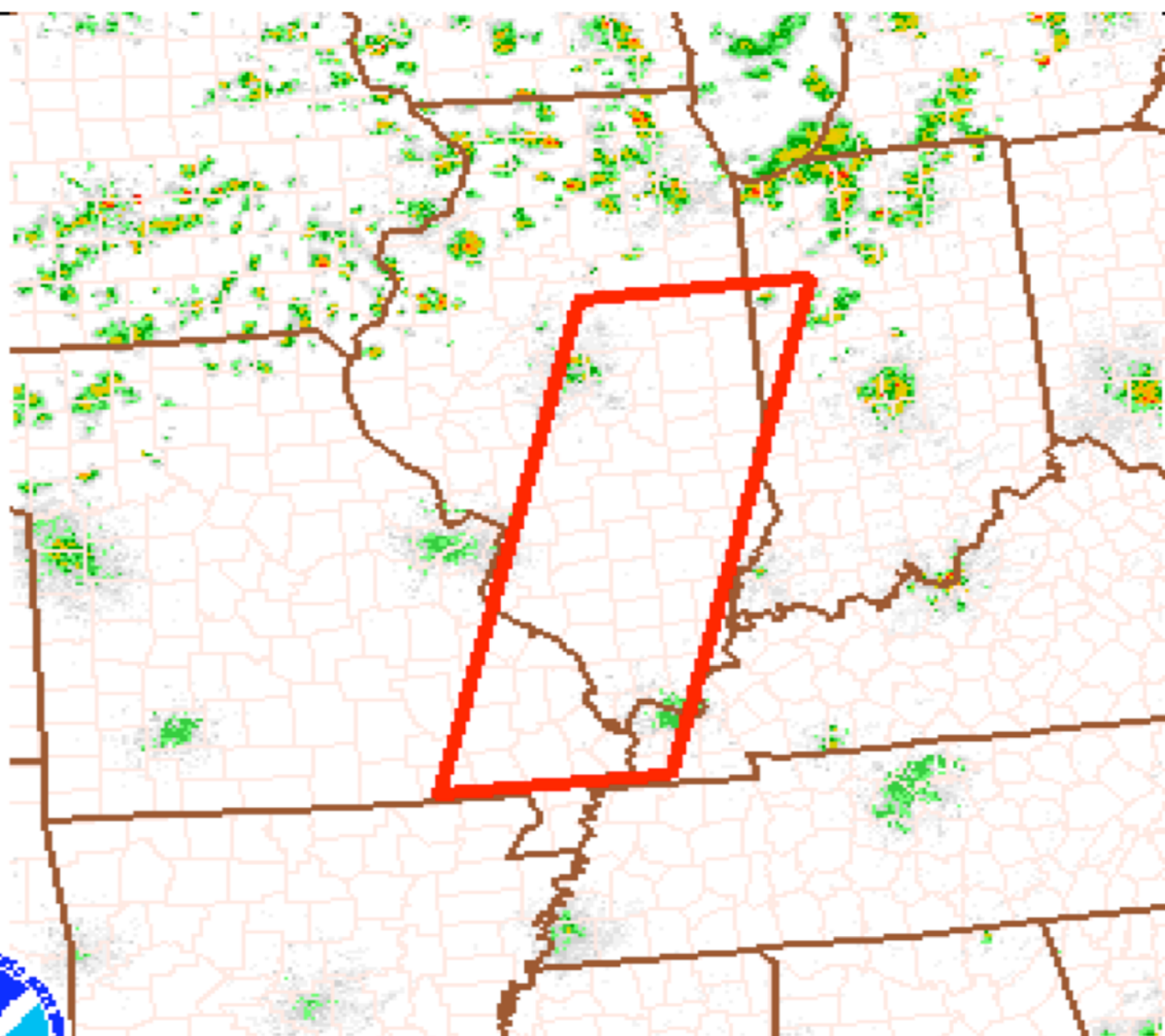
Probability of 2 or more tornadoes	Mod (30%)
Probability of 1 or more strong (F2-F5) tornadoes	Low (20%)

Wind

Probability of 10 or more severe wind events	Mod (40%)
Probability of 1 or more wind events > 65 knots	Mod (30%)

Hail

Probability of 10 or more severe hail events	Mod (40%)
Probability of 1 or more hailstones > 2 inches	Mod (30%)



20040331/2014

TORNADO WATCH # 342

VALID FROM 640 PM UNTIL 920 PM CDT

Tornado Watch #342 Probabilities

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Tornadoes

Probability of 2 or more tornadoes	High (80%)
Probability of 1 or more strong (F2-F5) tornadoes	Mod (60%)

Wind

Probability of 10 or more severe wind events	High (80%)
Probability of 1 or more wind events > 65 knots	High (70%)

Hail

Probability of 10 or more severe hail events	Mod (60%)
Probability of 1 or more hailstones > 2 inches	Low (20%)

Watch Probabilities

Available to all on SPC web page.

Provide better discrimination of the expected amount and intensity of severe weather events from one watch to another.

Probability modifiers (low, moderate and high) still a work in progress.

SPC Enhanced Thunder Product

Tue March 8th - product will be available on the SPC web for all customers.

Issued at 0600, 1300, 1630 and 0100 UTC.

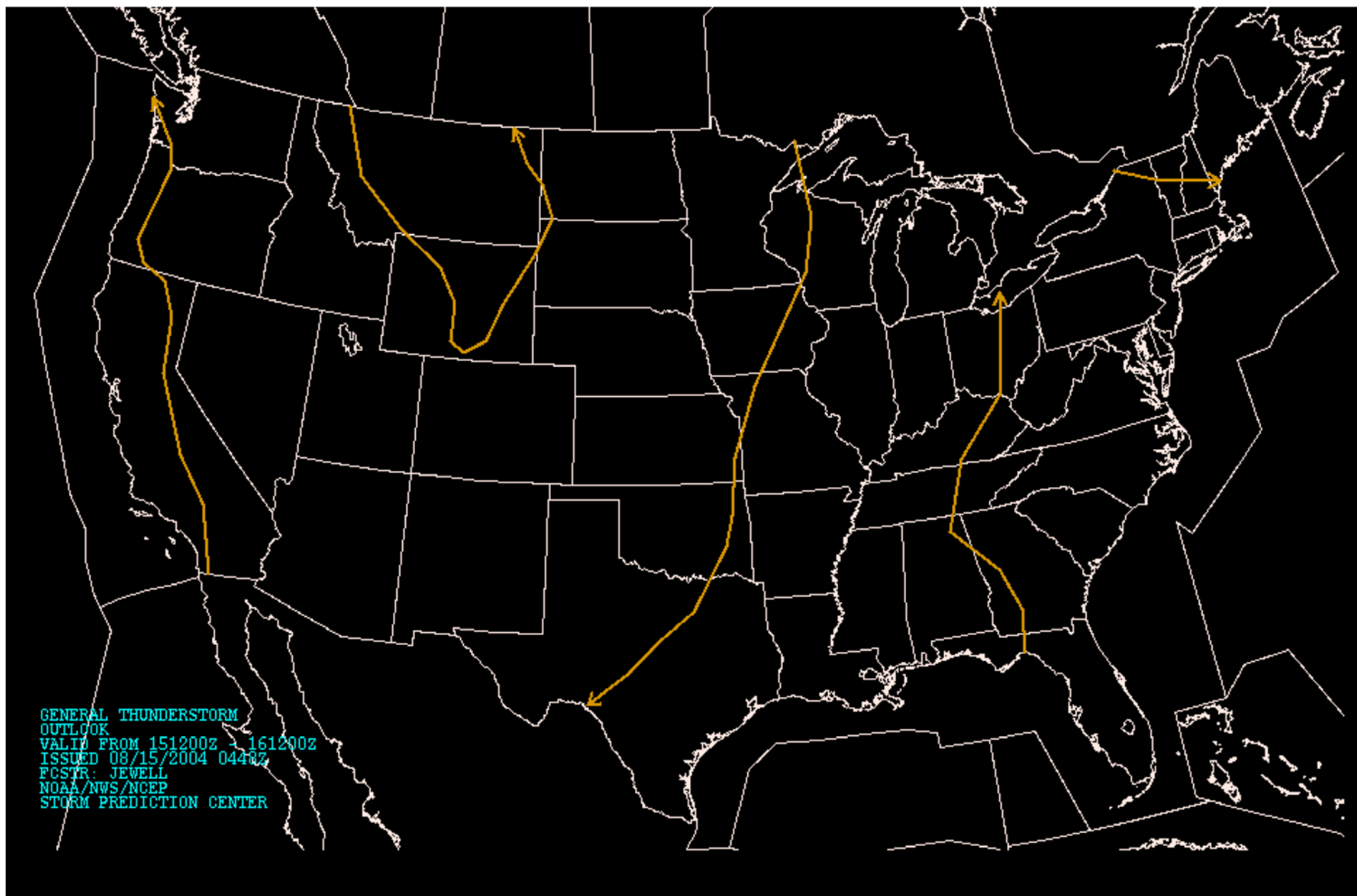
Provides better temporal resolution and thunder coverage than routine Convective Outlook.

Two thunder graphics – valid from 1200 (or time of issuance) until 0000 UTC and 0000 - 1200 UTC.

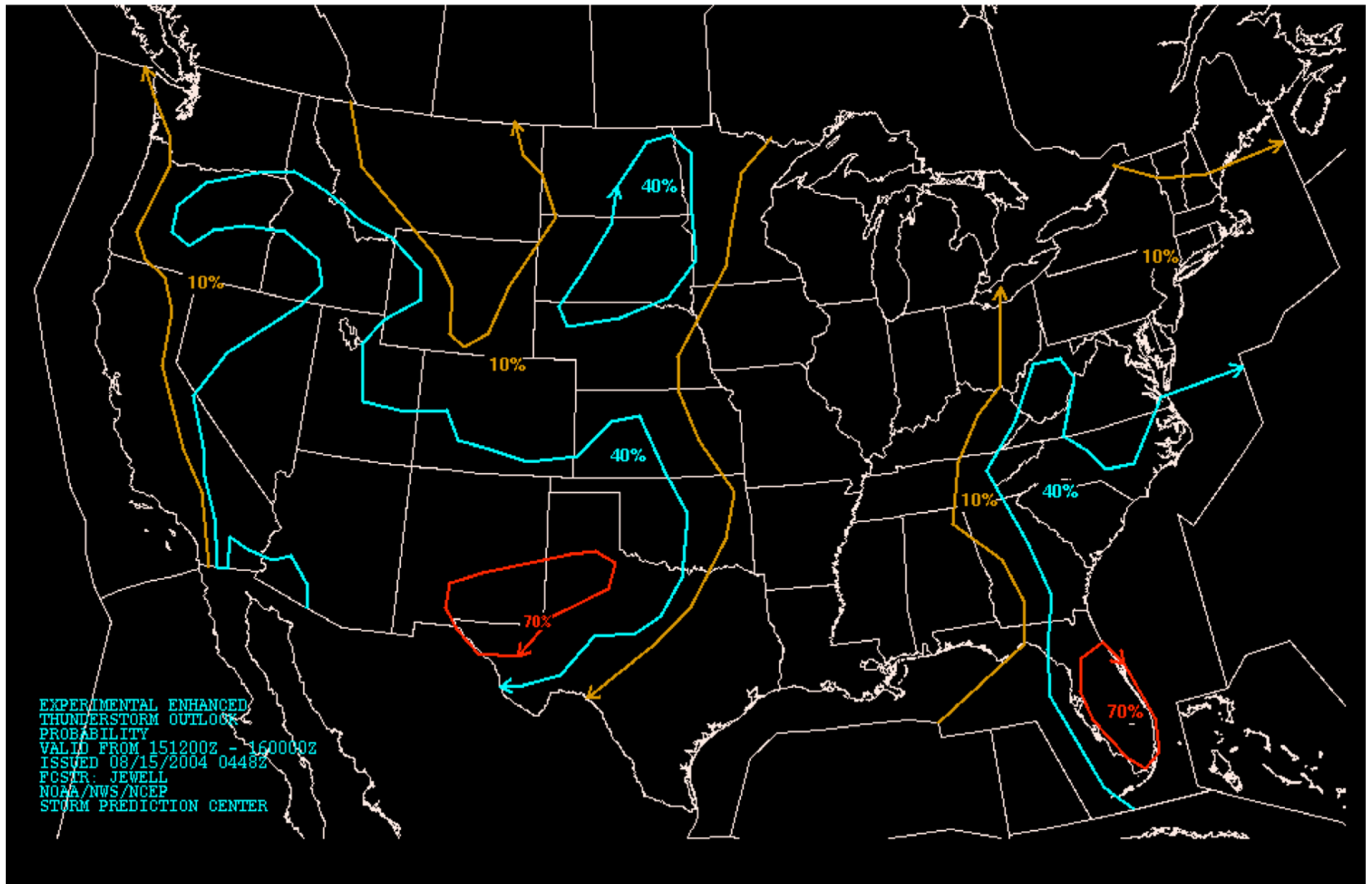
Only 1 product issued at 0100 UTC.

Probability Contours 10%, 40% and 70%.

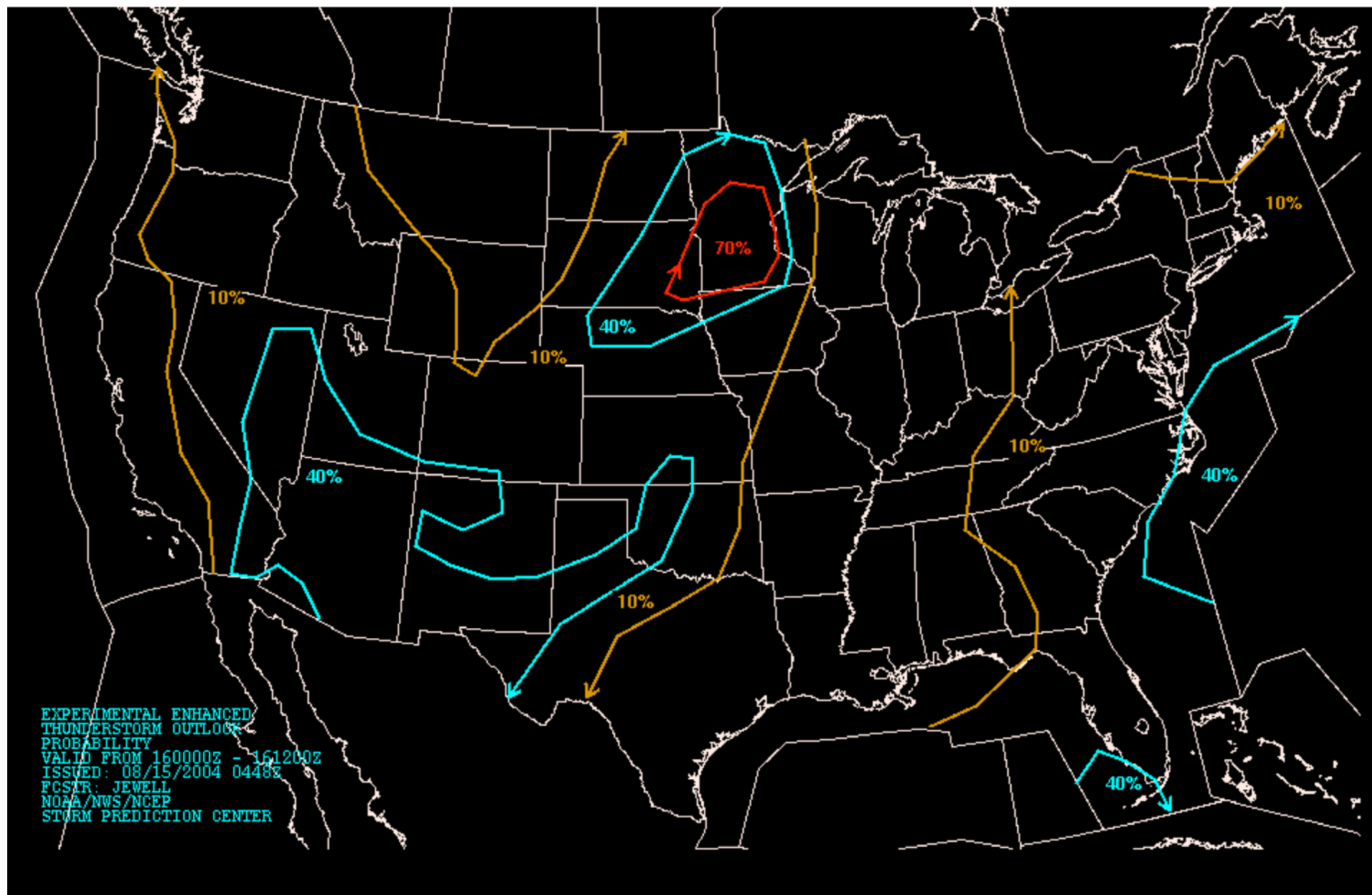
SPC Thunder Outlook issued Aug 15, 2004 at 0600 UTC
valid 15/1200 - 16/1200 UTC



SPC Enhanced Thunder Outlook issued Aug 15 at 0600 UTC,
valid 15/1200 - 16/0000 UTC

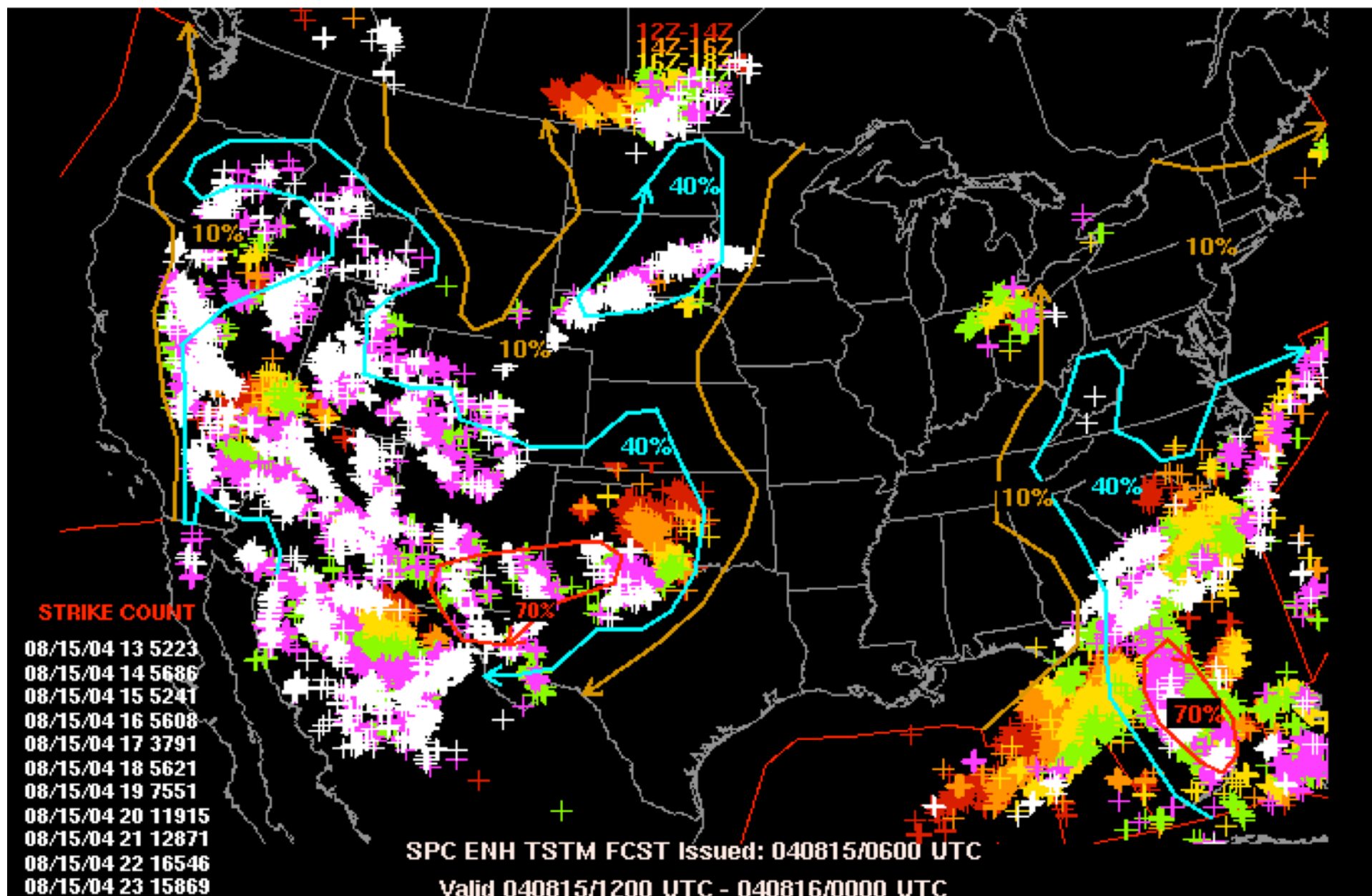


SPC Enhanced Thunder Outlook issued Aug 15 at 0600 UTC
Valid 16/0000 - 16/1200 UTC



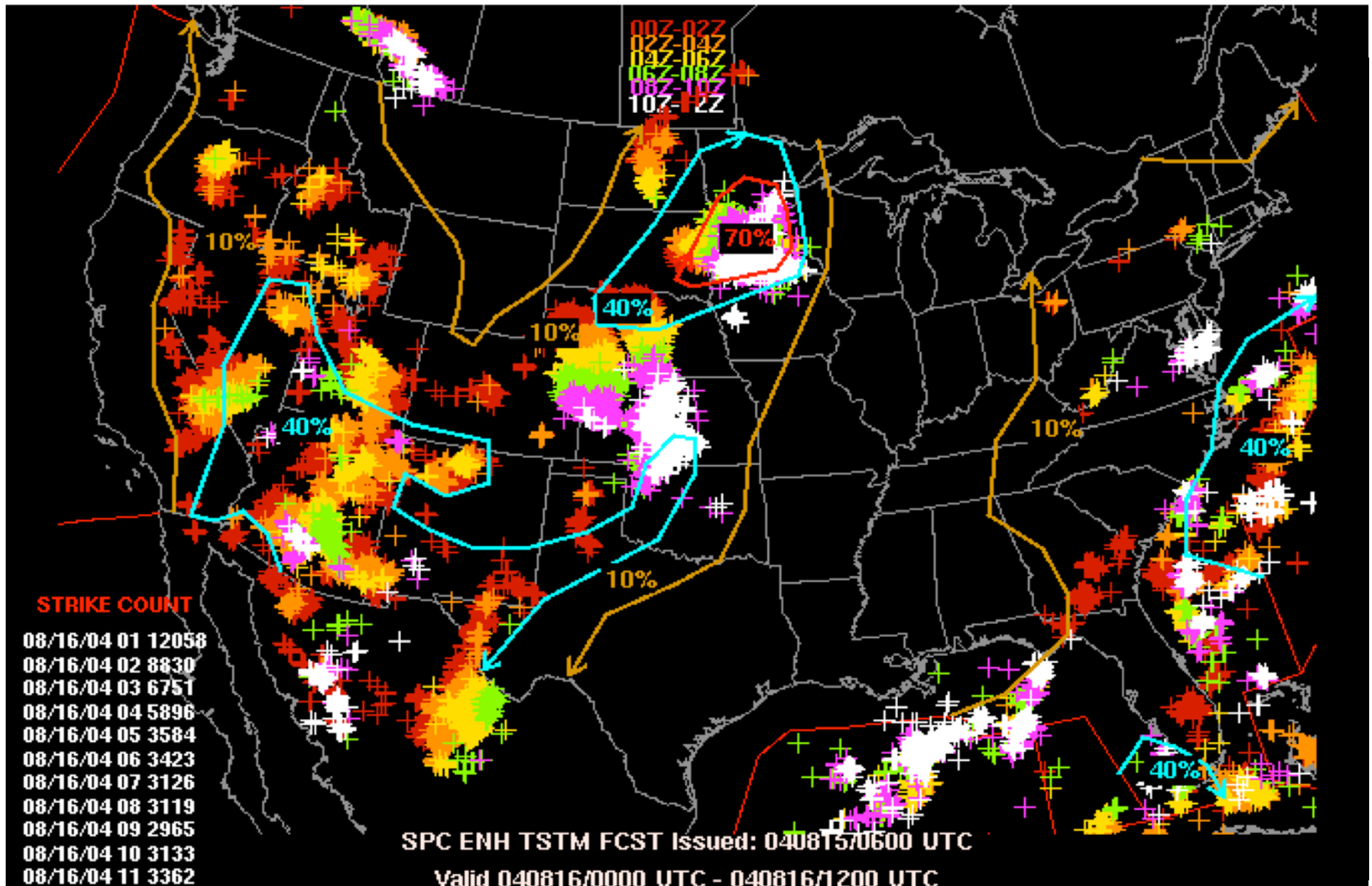
SPC Enhanced Thunder Verification

Aug 15, 2004; Valid 15/1200 - 16/0000 UTC



SPC Enhanced Thunder Verification

Aug 15, 2004; Valid 16/0000 - 16/1200 UTC



Day 4-8 Severe Weather Outlook

Product available to only noaa.gov IP addresses beginning on March 8th.

Product issued daily by 400 am cst (and cdt).

Outlook areas only for expected organized severe convection in synoptically active patterns.

Reasonable confidence for event occurring across a specific area before depicting a severe weather area

Given model uncertainty/unreliability 4 or more days out, only forecast severe weather areas when there is at least a 25% or higher probability for severe.

Day 4-8 Severe Weather Outlook



Day 4-8 Severe Weather Outlook

PREDICTABILITY TOO LOW TO DELINEATE A REGIONAL SEVERE WEATHER AREA

Area(s) of organized severe storms possible, but substantial differences in deterministic model solutions, or ensemble guidance spreads, or lack of day-to-day continuity, etc., indicate large uncertainty in terms of location and/or probability of occurrence.

POTENTIAL TOO LOW FOR A REGIONAL SEVERE WEATHER AREA

When the threat for a regional area of organized severe storms appears very low.

Day 4-8 Severe Weather Outlook



Day 4-8 Severe Weather Outlook

Day 4-8 Outlook available only to noaa.gov IP addresses beginning on March 8th.

A short text discussion will accompany graphic.

Many questions remain, such as:

What is best way to forecast severe weather for the Day 4-8 period?

How do we receive effective feedback from those who will use product?

Summary

SPC web redesign will be implemented on April 1st.

Watch Probabilities now available to **all** on SPC web site.

Enhanced Thunder Products available to **all** on SPC web site beginning March 8th.

Day 4-8 Severe Weather Outlook available to **only** noaa.gov IP addresses beginning on March 8th.